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1 PCF parallel Fortran extensions
CORPORATE The Parallel Computing Forum
September 1991 **ACM SIGPLAN Fortran Forum**, Volume 10 Issue 3
Publisher: ACM Press
Full text available: 📄 pdf(2.94 MB)   Additional Information: full citation, abstract, citings, index terms

> This proposed standard was constructed as an effort to provide a uniform spelling of well understood p
> conscious effort to resist the lure of new constructs unless the evolutionary path from existing practice

2 GPGPU: general purpose computation on graphics hardware
David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lei
August 2004   **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: 📄 pdf(63.03 MB)   Additional Information: full citation, abstract

> The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerf
> graphics architectures provide tremendous memory bandwidth and computational horsepower, with ful
> processing units that support vector operations up to full IEEE floating point precision. High level langu
> hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

3 AGM: a dataflow database machine
Lubomir Bic, Robert L. Hartmann
March 1989   **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 1
Publisher: ACM Press
Full text available: 📄 pdf(2.69 MB)   Additional Information: full citation, abstract, references, citings, inc

> In recent years, a number of database machines consisting of large numbers of parallel processing elei
> Unfortunately, there are two main limitations in database processing that prevent a high degree of par.
> bandwidth of the underlying storage devices and the concurrency control mechanisms necessary to gui
> problem with conventional approaches is the lack of a computational model capable of utilizing th ...

4 An algorithm for high accuracy name pronunciation by parametric speech synthesizer
Tony Vitale
September 1991 **Computational Linguistics**, Volume 17 Issue 3
Publisher: MIT Press
Full text available: 📄 pdf(1.50 MB) 📄 Publisher Site   Additional Information: full citation, abstract, references, citings

> Automatic and accurate pronunciation of personal names by parametric speech synthesizer has become

within the telecommunications industry, since the technology is needed to provide new automated ser\
assistance (number to name).Within text-to-speech technology, however, it was not possible to offer s
inability of a text-to-speech device optimized for a specific language (e.g., American Engli ...

5 Equal rights for functional objects or, the more things change, the more they are the same

Henry G. Baker
October 1993 **ACM SIGPLAN OOPS Messenger**, Volume 4 Issue 4

Publisher: ACM Press

Full text available: pdf(2.61 MB)   Additional Information: full citation, abstract, index terms

We argue that intensional *object identity* in object-oriented programming languages and databases is t
semantics. A corollary is that "functional" objects have extensional semantics. This model of object ide
forms of relational algebra, provides cleaner semantics for the value-transmission operations and built-
programming language, and eliminates the confusion surrounding "ca ...

6 Fortran 8X draft

Loren P. Meissner
December 1989 **ACM SIGPLAN Fortran Forum**, Volume 8 Issue 4

Publisher: ACM Press

Full text available: pdf(21.36 MB)   Additional Information: full citation, abstract, index terms

Standard Programming Language Fortran. This standard specifies the form and establishes the int
the Fortran language. It consists of the specification of the language Fortran. No subsets are specified i
standard, commonly known as "FORTRAN 77", is entirely contained within this standard, known as "Foi
conforming FORTRAN 77 program is standard conforming under this standard. New features can b ...

7 A Semi-Decision Procedure for the Functional Calculus

Joyce Friedman
January 1963 **Journal of the ACM (JACM)**, Volume 10 Issue 1

Publisher: ACM Press

Full text available: pdf(1.41 MB)   Additional Information: full citation, references, citings, index terms

8 Automatic Proofs of Theorems in Analysis Using Nonstandard Techniques

W. W. Bledsoe, A. Michael Ballantyne
July 1977 **Journal of the ACM (JACM)**, Volume 24 Issue 3

Publisher: ACM Press

Full text available: pdf(1.37 MB)   Additional Information: full citation, references, index terms

9 A theory of using history for equational systems with applications

Rakesh M. Verma
September 1995 **Journal of the ACM (JACM)**, Volume 42 Issue 5

Publisher: ACM Press

Full text available: pdf(2.70 MB)   Additional Information: full citation, abstract, references, index term

Implementation of programming language interpreters, proving theorem of the form A=B, implementa
program optimization are all problems that can be reduced to the problem of finding a normal form for
set of equations. In 1980, Chew proposed an elegant congruence closure based simplifier (CCNS) for c
stores the history of it computations in a compact data structure. In 1990, Verma and Ra ...

Keywords: congruence-closure algorithm, equational logic, proof theory, rewrite system transformatic

10
Mobile objects in distributed Oz

Peter Van Roy, Seif Haridi, Per Brand, Gert Smolka, Michael Mehl, Ralf Scheidhauer
September 1997 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 19 I;
Publisher: ACM Press
Full text available: pdf(484.83 KB)   Additional Information: full citation, abstract, references, citings, inc

Some of the most difficult questions to answer when designing a distributed application are related to r
between sites and when and how to transfer it. Network-transparent distribution, the property that a p
how it is partitioned among sites, does not directly address these questions. Therefore we propose to e
network behavior that enables efficient distributed programm ...

Keywords: latency tolerance, mobile objects, network transparency

11 Special issue on computational phonology: Regular models of phonological rule systems
Ronald M. Kaplan, Martin Kay
September 1994 **Computational Linguistics**, Volume 20 Issue 3
Publisher: MIT Press
Full text available: pdf(3.40 MB) Publisher Site   Additional Information: full citation, abstract, references, citings

This paper presents a set of mathematical and computational tools for manipulating and reasoning abo
relations and argues that they provide a solid basis for computational phonology. It shows in detail hov
sets of context-sensitive rewriting rules and also to grammars in Koskenniemi's two-level formalism. Tl
representation of phonological constraints that supports efficient generation and recognition b ...

12 Java consistency: nonoperational characterizations for Java memory behavior
Alex Gontmakher, Assaf Schuster
November 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 4
Publisher: ACM Press
Full text available: pdf(305.72 KB)   Additional Information: full citation, abstract, references, citings, inc

The Java Language Specification (JLS) [Gosling et al. 1996] provides an operational definition for the c
definition remains unchanged in the JLS 2nd edition, currently under peer review, which relies on a spe
model, is very complicated. Several subsequent works have tried to simplify and formalize it. However,
operational, and thus have failed to highlight the intuition behind the o ...

Keywords: Java memory models, multithreading, nonoperational specification

13 A simulation model for same day care facility at a university hospital
Wafik H. Iskander, D. Mark Carter
December 1991 **Proceedings of the 23rd conference on Winter simulation**
Publisher: IEEE Computer Society
Full text available: pdf(594.02 KB)   Additional Information: full citation, references, citings, index terms

14 Efficient support for interactive service in multi-resolution VOD systems
Kelvin K. W. Law, John C. S. Lui, Leana Golubchik
October 1999   **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(261.23 KB)   Additional Information: full citation, abstract, index terms

Advances in high-speed networks and multimedia technologies have made it feasible to provide video-«
However, it is still a challenging task to design a cost-effective VOD system that can support a large nu
different quality of service (QoS) requirements) and, at the same time, provide different types of VCR l
recognized that VCR operations are important functionalities in providing VOD service, tec ...

Keywords: Interactive services, Multi-resolution services, Multimedia servers, VOD systems

15 Special issue of the lexicon: Large lexicons for natural language processing: utilising the gramma

Bran Boguraev, Ted Briscoe

July 1987   **Computational Linguistics**, Volume 13 Issue 3-4

Publisher: MIT Press

Full text available: pdf(1.66 MB) Publisher Site   Additional Information: full citation, abstract, references, citings

> This article focusses on the derivation of large lexicons for natural language processing. We describe th environment linking a restructured version of the Longman Dictionary of Contemporary English to natu process of restructuring the information in the machine readable version of the dictionary is discussed. used to construct 'theory neutral' lexical entries. We demonstrate how such lexi ...

16 The complexity of probabilistic verification

Costas Courcoubetis, Mihalis Yannakakis

July 1995   **Journal of the ACM (JACM)**, Volume 42 Issue 4

Publisher: ACM Press

Full text available: pdf(4.14 MB)   Additional Information: full citation, abstract, references, citings, inc

> We determine the complexity of testing whether a finite state, sequential or concurrent probabilistic pr expressed in linear-time temporal logic. For sequential programs, we present an algorithm that runs in exponential in the specification, and also show that the problem is in PSPACE, matching the known low show that the problem can be solved in time polynomial in the program and doubly exp ...

Keywords: EXPTIME-complete, Markov chain, PSPACE-complete, automata, model checking, probabili

17 Channel routing of multiterminal nets

Shaodi Gao, Michael Kaufmann

July 1994   **Journal of the ACM (JACM)**, Volume 41 Issue 4

Publisher: ACM Press

Full text available: pdf(1.80 MB)   Additional Information: full citation, abstract, references, citings, inc

> This paper presents new upper bounds for channel routing of multiterminal nets, which answers the lor not multiterminal problems really require channels two times wider than 2-terminal problems. We tran: density d into a so-called extended simple channel routing problem (ESCRP) of density 3d/2+Odlog d<

Keywords: VLSI layout, channel routing

18 Propositional computability logic II

Giorgi Japaridze

April 2006   **ACM Transactions on Computational Logic (TOCL)**, Volume 7 Issue 2

Publisher: ACM Press

Full text available: pdf(250.61 KB)   Additional Information: full citation, abstract, references, index term

> Computability logic is a formal theory of computational tasks and resources. Its formulas represent inte logical operators stand for operations on computational problems, and validity of a formula is understo that always have algorithmic solutions. The earlier article "Propositional computability logic I" proved s a sense) minimal nontrivial fragment **CL1** of computability log ...

Keywords: Computability logic, computational resources, game semantics, interactive algorithms, line

19 A program integration algorithm that accommodates semantics-preserving transformations

Wuu Yang, Susan Horwitz, Thomas Reps

July 1992   **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 1 Iss

Publisher: ACM Press

Full text available: pdf(3.07 MB)   Additional Information: full citation, abstract, references, citings, inc

Given a program Base and two variants, A and B, each created by modifying separate copies of Base, t
determine whether the modifications interfere, and if they do not, to create an integrated program that
as the portions of Base preserved in both variants. Text-based integration techniques, such as the one

Keywords: coarsest partition, control dependence, data dependence, data-flow analysis, flow depende
program integration, program representation graph, static-single-assignment form

20 Moshe: A group membership service for WANs
Idit Keidar, Jeremy Sussman, Keith Marzullo, Danny Dolev
August 2002   **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 3
Publisher: ACM Press

Full text available: pdf(944.45 KB)   Additional Information: full citation, abstract, references, citings, inc

We present Moshe, a novel scalable group membership algorithm built specifically for use in wide area
partitions. Moshe is designed with three new significant features that are important in this setting: it av
of-date memberships; it requires a single round of messages in the common case; and it employs a cli
Furthermore, Moshe's interface supplies the hooks needed to provide clients with fu ...

Keywords: Group communication systems, group membership, partitionable group membership, view
area networks

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